

QAM Radio Tx Control	
TX	Radiate_____

**Tx Radiate:**

**AUTO:** Software controls the RADIATE function.

## 2.10 Site Installation

The installation of the NXE1-20 involves several considerations. A proper installation is usually preceded by a pre-installation site survey of the facilities. The purpose of this survey is to familiarize the customer with the basic requirements needed for the installation to go smoothly. The following are some considerations to be addressed (refer to Figure 2-8 for Site Installation Details).

Before taking the product to the installation site verify that the interface connections are compatible with the equipment to be connected. Also, locate the information provided by the path analysis that should have been performed before ordering the equipment. At the installation site, particular care should be taken in locating the product in an area where it is protected from the weather and as close to the antenna as possible. Locate the power source and verify that it is suitable for proper installation.

**The Installations should only be performed by qualified technical personnel only.**

## 2.11 Antenna/Feed System

### 2.11.1 Antenna Installation

**For compliance with FCC RF Exposure requirements the following has to be adhered to:-**

1. All antenna installation and servicing is to be performed by qualified technical personnel only. When servicing the antenna, or working at distances closer than those noted below, ensure the transmitter has be disabled.
2. Typically, the antenna connected to the transmitter is a directional (high gain) antenna, fixed-mounted on the side or top of a building, or on a tower. Depending upon the application and the gain of the antenna, the total composite power could exceed 20 to 61watts EIRP. The antenna location should be such that only qualified technical personnel can access it, and that under normal operating conditions the antenna separation from the user is required to be located at the distance of 3.5meters or more.

EIRP at the antenna is calculated as follows:-

Transmit power – Cable loss + Antenna Gain = EIRP

Eg.

+31.1dBm – 6dB(for 100m LDF5-50A) +36dBi = 61.1Bmi